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GenBank

Homo sapiens chromosome 8 clones GS1-24F4, CTD-2629I16 map p23.1, complete sequences

GenBank: AF233439.7

FASTA Graphics

Go to:

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LOCUS       AF233439              231283 bp    DNA     linear   PRI 16-APR-2004
DEFINITION  Homo sapiens chromosome 8 clones GS1-24F4, CTD-2629I16 map p23.1,
            complete sequences.
ACCESSION   AF233439 AF166112
VERSION     AF233439.7
KEYWORDS    HTG.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
            Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 231283)
  AUTHORS   Schudy,A., Schilhabel,M., Baumgart,C., Menzel,U., Weber,J.,
            Schattevoy,R. and Rosenthal,A.
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 231283)
  AUTHORS   Reichwald,K., Menzel,U., Dette,M., Baumgart,C., Jahn,N., Wen,G.,
            Schillhabel,M. and Rosenthal,A.
  TITLE     Direct Submission
  JOURNAL   Submitted (10-FEB-2000) Genome Analysis, Institute of Molecular
            Biotechnology, Beutenbergstrasse 11, Jena 07745, Germany
REFERENCE   3  (bases 1 to 231283)
  AUTHORS   Genome Sequencing Center Jena.
  TITLE     Direct Submission
  JOURNAL   Submitted (24-MAY-2000) Genome Analysis, Institute of Molecular
            Biotechnology, Beutenberstr. 11, Jena 07745, Germany
REFERENCE   4  (bases 1 to 231283)
  AUTHORS   Reichwald,K. and Platzer,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (23-AUG-2001) Genome Analysis, Institute of Molecular
            Biotechnology, Beutenberstr. 11, Jena, Thuringia 07745, Germany
REFERENCE   5  (bases 1 to 231283)
  AUTHORS   Lagemann,D. and Platzer,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (06-JUL-2002) Genome Analysis, Institute of Molecular
            Biotechnology, Beutenbergstrasse 11, Jena 07745, Germany
REFERENCE   6  (bases 1 to 231283)
  AUTHORS   Lagemann,D. and Platzer,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (28-MAR-2003) Genome Analysis, Institute of Molecular
            Biotechnology, Beutenbergstrasse 11, Jena 07745, Germany
REFERENCE   7  (bases 1 to 231283)
  AUTHORS   Lagemann,D. and Platzer,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (01-APR-2003) Genome Analysis, Institute of Molecular
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REFERENCE   8  (bases 1 to 231283)
  AUTHORS   Lagemann,D. and Platzer,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (28-JUN-2003) Genome Analysis, Institute of Molecular
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REFERENCE   9  (bases 1 to 231283)
  AUTHORS   Lagemann,D. and Platzer,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (16-APR-2004) Genome Analysis, Institute of Molecular
            Biotechnology, Beutenbergstrasse 11, Jena 07745, Germany
COMMENT     On Jun 28, 2003 this sequence version replaced AF233439.6.
            -------------- Genome Center
                 Center: Institute of Molecular Biotechnology
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                Center code: IMB
                Web site: http://genome.imb-jena.de/
                Contact: gscj-submit@genome.imb-jena.de
            -------------- Project Information
                Center project name: H150-H369
                Center clone name: GS1-24F4, CTD-2629I16
            -------------- Summary Statistics
                Sequencing vector: pUC18; 100% of reads
                Chemistry: Dye-terminator Big Dye; 100% of reads
                Assembly program: Phrap; version 0.990329
                Consensus quality: 231218 bases at least Q40
                Consensus quality: 231266 bases at least Q30
                Consensus quality: 231283 bases at least Q20
                Quality coverage: 22.17x
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            This sequence was finished as follows unless otherwise noted: all
            regions were double stranded, sequenced with an alternate
            chemistry, or covered by high quality data (i.e., phred quality >=
            30); an attempt was made to resolve all sequencing problems, such
            as compressions and repeats; all regions were covered by at least
            one plasmid subclone or more than one M13 subclone; and the
            assembly was confirmed by restriction digest.
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            Neighboring sequence information:
            These clones are overlapped by CTD-2541M15, SCb-207i3, SCb-633e22,
            GS-i2046 and SCb-540n10.
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            Sequence Quality Assessment:
             This entry has been annotated with sequence quality
             estimates computed by the Phrap assembly program.
             All manually edited bases have been reduced to quality zero.
             Quality levels above 40 are expected to have less than
             1 error in 10,000 bp.
             Base-by-base quality values are not generally visible from the
             GenBank flat file format but are available as part
             of this entry's ASN.1 file.
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                     /note="A substituted in clone: GS1-24F4"
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                     /replace="g"
     variation       97640
                     /note="A substituted in clone: GS1-24F4"
                     /replace="t"
     variation       97766
                     /note="C substituted in clone: GS1-24F4"
                     /replace="a"
     variation       97800
                     /note="? substituted in clone: GS1-24F4"
                     /replace="?"
     variation       97808
                     /note="T substituted in clone: GS1-24F4"
                     /replace="g"
     variation       97820
                     /note="A substituted in clone: GS1-24F4"
                     /replace="g"
     variation       97867
                     /note="G substituted in clone: GS1-24F4"
                     /replace="c"
     variation       97986
                     /note="G substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="t"
     variation       98044
                     /note="C substituted in clone: GS1-24F4"
                     /replace="t"
     variation       98095
                     /note="T substituted in clone: GS1-24F4"
                     /replace="c"
     variation       98167
                     /note="G substituted in clone: GS1-24F4"
                     /replace="c"
     variation       98215
                     /note="G substituted in clone: GS1-24F4"
                     /replace="c"
     variation       98428..98429
                     /note="GA substituted in clone: GS1-24F4"
                     /replace="ac"
     variation       98460
                     /note="A substituted in clone: GS1-24F4"
                     /replace="g"
     variation       98686
                     /note="T substituted in clone: GS1-24F4"
                     /replace="c"
     variation       98732
                     /note="G substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="a"
     variation       98780
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       98883
                     /note="A substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="g"
     variation       98939
                     /note="C substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="g"
     variation       98959..98960
                     /note="deleted in clone: CTD-2629I16, GS1-24F4"
                     /replace=""
     variation       98991
                     /note="A substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="c"
     variation       99011
                     /note="G substituted in clone: GS1-24F4, CTD-2629I16"
                     /replace="c"
     variation       99021
                     /note="T substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="c"
     variation       99053
                     /note="C substituted in clone: GS1-24F4"
                     /replace="t"
     variation       99625..99627
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       100129
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       100287
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       100709..100710
                     /note="GA substituted in clone: GS1-24F4, CTD-2629I16, AG
                     substituted in clone: CTD-2629I16"
                     /replace="ag"
     variation       100741
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                     /replace="c"
     variation       100818
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       100953
                     /note="C substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="t"
     variation       102196
                     /note="A substituted in clone: GS1-24F4"
                     /replace="g"
     variation       103508
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       103688
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       103720
                     /note="T substituted in clone: SCb-207i3"
                     /replace="g"
     variation       103727
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       103759
                     /note="deleted in clone: CTD-2629I16, GS1-24F4"
                     /replace=""
     variation       104035
                     /note="T substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="c"
     variation       104093
                     /note="A substituted in clone: CTD-2629I16, GS1-24F4"
                     /replace="g"
     variation       104111
                     /note="A substituted in clone: GS1-24F4, CTD-2629I16"
                     /replace="g"
     variation       104127
                     /note="C substituted in clone: GS1-24F4, CTD-2629I16"
                     /replace="g"
     variation       104536
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       104790
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       105219
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       105329
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       105371
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       105742
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       105841
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       105850
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       105871
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       105882
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       106009
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       106020
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       106179
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       106258
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       107015
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       107033
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                     /replace="a"
     variation       107042
                     /note="A substituted in clone: SCb-633e22, CTD-2629I16"
                     /replace="g"
     variation       107285
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       107324
                     /note="A substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       107410
                     /note="C substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="t"
     variation       107590
                     /note="C substituted in clone: SCb-633e22"
                     /replace="g"
     variation       107681
                     /note="A substituted in clone: SCb-633e22"
                     /replace="c"
     variation       107765
                     /note="G substituted in clone: SCb-633e22"
                     /replace="t"
     variation       107809
                     /note="T substituted in clone: SCb-633e22"
                     /replace="g"
     variation       108226
                     /note="C substituted in clone: SCb-633e22"
                     /replace="g"
     variation       108382
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       108383
                     /note="G substituted in clone: SCb-633e22"
                     /replace="c"
     variation       108390
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       108404
                     /note="deleted in clone: SCb-207i3, SCb-633e22"
                     /replace=""
     variation       108577
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       108631
                     /note="G substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="c"
     variation       108666
                     /note="A substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       108678
                     /note="T substituted in clone: SCb-633e22"
                     /replace="g"
     variation       108721
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       108825
                     /note="C substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       108864..108865
                     /note="AC substituted in clone: CTD-2629I16"
                     /replace="ga"
     variation       108902..108905
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       108902
                     /note="deleted in clone: SCb-207i3"
                     /replace=""
     variation       108923
                     /note="G substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="t"
     variation       109068..109069
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       109073
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       109203
                     /note="T substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="c"
     variation       109278
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       109323
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                     /replace="g"
     variation       109402
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       109409
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       109611
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       109626
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       109740
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       109791
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       109849
                     /note="G substituted in clone: SCb-633e22"
                     /replace="t"
     variation       109914
                     /note="G substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="a"
     variation       110094
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       110168
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       110322
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       110612..110631
                     /note="deleted in clone: SCb-207i3"
                     /replace=""
     variation       110615..110635
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     misc_feature    110616..110618
                     /note="low quality region"
     unsure          110617
     variation       110697
                     /note="A substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       110907
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       111227
                     /note="C substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       111283
                     /note="G substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="a"
     variation       111595
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       111647
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     misc_feature    111824..112313
                     /note="single stranded/single chemistry region"
     variation       111831
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       111995
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       112058
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       112084
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       112152
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       112169
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       112172
                     /note="C substituted in clone: CTD-2629I16"
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                     /replace="t"
     variation       112175
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       112354
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       112597
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       112626
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       112672
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       112679
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       112812
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       113128
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       113155
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       113255
                     /note="T substituted in clone: SCb-207i3"
                     /replace="c"
     variation       113298
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       113311
                     /note="T substituted in clone: SCb-207i3"
                     /replace="g"
     variation       113439
                     /note="C substituted in clone: SCb-207i3"
                     /replace="g"
     variation       113471
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       113709
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       113770
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       113911
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       113975
                     /note="deleted in clone: SCb-207i3"
                     /replace=""
     variation       113979
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="t"
     variation       113989
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       114107
                     /note="T substituted in clone: SCb-207i3"
                     /replace="a"
     variation       114135
                     /note="A substituted in clone: SCb-207i3"
                     /replace="t"
     variation       114196
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       114212
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       114367..114384
                     /note="deleted in clone: SCb-207i3"
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     variation       114378
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       114379..114384
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       114460
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
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                     /replace="a"
     variation       114485
                     /note="T substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       114517
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="a"
     variation       114591
                     /note="deleted in clone: SCb-207i3, SCb-633e22"
                     /replace=""
     variation       114702
                     /note="A substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="g"
     variation       114766..114767
                     /note="TG substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="ac"
     variation       114883
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       114895
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       114955
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       115039
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="t"
     variation       115213
                     /note="deleted in clone: CTD-2629I16, SCb-633e22"
                     /replace=""
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                     /note="deleted in clone: CTD-2629I16, SCb-633e22"
                     /replace=""
     variation       115359
                     /note="G substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="a"
     variation       115407
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       115597
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       115766
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       115905
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       115978
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       116101..116103
                     /note="deleted in clone: SCb-207i3, SCb-633e22"
                     /replace=""
     variation       116429
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       116482
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       116509
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="a"
     variation       116577
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       116580
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       116693
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       116962
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       117054
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       117088
                     /note="deleted in clone: SCb-633e22, SCb-207i3"
                     /replace=""
     variation       117229
                     /note="G substituted in clone: CTD-2629I16"
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     variation       117396
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       117440
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       117557
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       117783
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="t"
     variation       118009
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       118108
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       118132
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       118140
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     variation       118478
                     /note="A substituted in clone: SCb-207i3"
                     /replace="t"
     variation       118698
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     misc_feature    118717..118783
                     /note="single stranded/single chemistry region"
     variation       118722
                     /note="G substituted in clone: SCb-207i3"
                     /replace="c"
     variation       118764
                     /note="G substituted in clone: SCb-207i3"
                     /replace="t"
     variation       118772
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       118776
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       118782
                     /note="T substituted in clone: SCb-207i3"
                     /replace="c"
     variation       118819
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       118830
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     variation       118963
                     /note="deleted in clone: SCb-207i3, SCb-207i3, G
                     substituted in clone: SCb-207i3"
                     /replace=""
     variation       119205
                     /note="A substituted in clone: SCb-207i3"
                     /replace="t"
     variation       119207
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     variation       119226
                     /note="T substituted in clone: SCb-207i3"
                     /replace="g"
     variation       119229
                     /note="A substituted in clone: SCb-207i3"
                     /replace="c"
     variation       119329
                     /note="C substituted in clone: SCb-633e22"
                     /replace="a"
     variation       119491
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       119717..119718
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       119830
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       119905
                     /note="A substituted in clone: CTD-2629I16"
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                     /replace="g"
     variation       119944
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       120291
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       120353
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       120354
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       120492
                     /note="C substituted in clone: SCb-633e22, CTD-2629I16"
                     /replace="t"
     variation       120523
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       120590
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       120823
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       120831..120834
                     /note="deleted in clone: SCb-207i3"
                     /replace=""
     variation       120837
                     /note="A substituted in clone: SCb-207i3"
                     /replace="t"
     variation       120899
                     /note="G substituted in clone: SCb-207i3"
                     /replace="t"
     variation       120937
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       121172
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       121456
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       121479
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       121601
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       122150
                     /note="T substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       122310
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       122438..122439
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       122439
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       122466
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       122631
                     /note="G substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="a"
     variation       122692
                     /note="T substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       122783
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="t"
     variation       122900
                     /note="C substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="t"
     variation       122983..123094
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       123117..123118
                     /note="TG substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="ca"
     variation       123132
                     /note="A substituted in clone: SCb-207i3, SCb-633e22"
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                     /replace="c"
     variation       123145
                     /note="A substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="g"
     variation       123201
                     /note="A substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="g"
     variation       123304
                     /note="G substituted in clone: SCb-207i3"
                     /replace="t"
     variation       123325
                     /note="G substituted in clone: SCb-633e22"
                     /replace="c"
     variation       123453
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       123677
                     /note="A substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="g"
     variation       123696
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     variation       123836
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       124014
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="g"
     variation       124018
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       124063
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       124069
                     /note="T substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       124087..124089
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       124087
                     /note="deleted in clone: SCb-633e22"
                     /replace=""
     variation       124166
                     /note="G substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="c"
     variation       124379
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       124394
                     /note="deleted in clone: SCb-633e22, CTD-2629I16"
                     /replace=""
     variation       124440
                     /note="A substituted in clone: SCb-633e22, SCb-207i3"
                     /replace="g"
     variation       124512
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       124610
                     /note="T substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="c"
     variation       124757
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       124819
                     /note="C substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="t"
     variation       125100
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       125267
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       125680
                     /note="G substituted in clone: SCb-633e22"
                     /replace="t"
     variation       125738
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       125960
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       126161
                     /note="G substituted in clone: CTD-2629I16"
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                     /replace="a"
     variation       126277
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       126302
                     /note="G substituted in clone: GS-i2046"
                     /replace="c"
     variation       126682
                     /note="T substituted in clone: SCb-207i3"
                     /replace="c"
     variation       127518..127521
                     /note="deleted in clone: SCb-633e22, GS-i2046"
                     /replace=""
     variation       127518
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       127925
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     variation       129350
                     /note="A substituted in clone: SCb-207i3"
                     /replace="g"
     variation       129448
                     /note="G substituted in clone: GS-i2046, SCb-207i3,
                     SCb-633e22"
                     /replace="a"
     variation       130595
                     /note="G substituted in clone: SCb-207i3"
                     /replace="a"
     variation       131031
                     /note="A substituted in clone: SCb-207i3"
                     /replace="t"
     variation       131036
                     /note="deleted in clone: CTD-2629I16, SCb-207i3, GS-i2046"
                     /replace=""
     variation       131046
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       131306
                     /note="C substituted in clone: SCb-207i3"
                     /replace="t"
     variation       131884
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="t"
     variation       131926
                     /note="G substituted in clone: SCb-207i3"
                     /replace="c"
     variation       132378
                     /note="G substituted in clone: SCb-633e22, GS-i2046,
                     SCb-207i3"
                     /replace="a"
     variation       132809..132822
                     /note="deleted in clone: SCb-633e22, GS-i2046"
                     /replace=""
     variation       132809..132814
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       132960
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       133597
                     /note="A substituted in clone: SCb-207i3, SCb-633e22,
                     GS-i2046"
                     /replace="g"
     variation       133890
                     /note="G substituted in clone: SCb-207i3, SCb-633e22"
                     /replace="a"
     variation       134143
                     /note="T substituted in clone: SCb-207i3"
                     /replace="c"
     variation       134178
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="t"
     variation       134328
                     /note="A substituted in clone: GS-i2046"
                     /replace="t"
     variation       134536
                     /note="A substituted in clone: SCb-207i3, GS-i2046"
                     /replace="g"
     variation       134609
                     /note="T substituted in clone: SCb-207i3"
                     /replace="g"
     variation       134794
                     /note="T substituted in clone: SCb-207i3"
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                     /replace="a"
     variation       135087
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       135141
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="t"
     variation       137257
                     /note="C substituted in clone: SCb-207i3, SCb-540n10,
                     GS-i2046"
                     /replace="a"
     variation       137500
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       137628
                     /note="C substituted in clone: CTD-2629I16, GS-i2046,
                     SCb-633e22"
                     /replace="g"
     variation       137780
                     /note="A substituted in clone: GS-i2046, SCb-633e22,
                     CTD-2629I16"
                     /replace="c"
     variation       138471
                     /note="C substituted in clone: SCb-633e22, CTD-2629I16"
                     /replace="g"
     variation       138529
                     /note="C substituted in clone: SCb-633e22, CTD-2629I16"
                     /replace="a"
     variation       138666
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       138733..138734
                     /note="deleted in clone: SCb-207i3, SCb-540n10"
                     /replace=""
     variation       138802
                     /note="G substituted in clone: GS-i2046"
                     /replace="a"
     variation       138817..138824
                     /note="deleted in clone: SCb-540n10, SCb-207i3"
                     /replace=""
     variation       138878..138996
                     /note="deleted in clone: SCb-207i3, SCb-540n10"
                     /replace=""
     variation       139030..139033
                     /note="deleted in clone: SCb-540n10"
                     /replace=""
     variation       139030
                     /note="deleted in clone: SCb-207i3"
                     /replace=""
     variation       139039..139040
                     /note="TA substituted in clone: SCb-540n10"
                     /replace="at"
     variation       139048..139049
                     /note="deleted in clone: SCb-207i3"
                     /replace=""
     variation       139049
                     /note="A substituted in clone: SCb-540n10"
                     /replace="t"
     variation       139061
                     /note="T substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="a"
     variation       139146
                     /note="T substituted in clone: GS-i2046"
                     /replace="c"
     variation       139230
                     /note="T substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       139286
                     /note="A substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="g"
     variation       139291
                     /note="G substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       139423
                     /note="T substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="c"
     variation       139424..139467
                     /note="deleted in clone: SCb-633e22, GS-i2046"
                     /replace=""
     variation       139428..139471
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       139472
                     /note="A substituted in clone: SCb-540n10, SCb-207i3"
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                     /replace="c"
     variation       139479
                     /note="T substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="c"
     variation       139511
                     /note="G substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="a"
     variation       139516
                     /note="G substituted in clone: SCb-633e22, GS-i2046,
                     SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       139519
                     /note="T substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       139521
                     /note="G substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="a"
     variation       141106
                     /note="G substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="a"
     variation       141188
                     /note="A substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       141525
                     /note="G substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="a"
     variation       141565
                     /note="A substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="t"
     variation       141688
                     /note="A substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       142092
                     /note="T substituted in clone: SCb-540n10, SCb-207i3,
                     SCb-633e22"
                     /replace="c"
     variation       142279
                     /note="C substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="g"
     variation       142402
                     /note="C substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="g"
     variation       142676
                     /note="C substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="a"
     variation       142834
                     /note="A substituted in clone: SCb-540n10, SCb-633e22,
                     GS-i2046, SCb-207i3"
                     /replace="c"
     variation       142851
                     /note="T substituted in clone: SCb-540n10, SCb-207i3"
                     /replace="c"
     variation       142861
                     /note="C substituted in clone: GS-i2046, SCb-633e22"
                     /replace="t"
     variation       143069
                     /note="C substituted in clone: GS-i2046"
                     /replace="t"
     variation       143156..143163
                     /note="deleted in clone: SCb-540n10, SCb-633e22,
                     CTD-2629I16, SCb-207i3"
                     /replace=""
     variation       143267
                     /note="A substituted in clone: GS-i2046, SCb-633e22"
                     /replace="g"
     variation       143375
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       143381
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       143385
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       143393
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       143397
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       143399
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="t"
     variation       143402..143403
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                     /note="AT substituted in clone: SCb-633e22, GS-i2046"
                     /replace="gc"
     variation       143405..143406
                     /note="AG substituted in clone: SCb-633e22, GS-i2046"
                     /replace="ca"
     variation       143409
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       143413
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       143421
                     /note="C substituted in clone: SCb-633e22, GS-i2046"
                     /replace="t"
     variation       143425
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       143429
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       143435..143444
                     /note="deleted in clone: SCb-540n10, CTD-2629I16,
                     SCb-207i3"
                     /replace=""
     variation       143473..143474
                     /note="deleted in clone: SCb-540n10"
                     /replace=""
     variation       143494
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       143608..143617
                     /note="deleted in clone: SCb-633e22"
                     /replace=""
     variation       143706
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       143746
                     /note="C substituted in clone: GS-i2046, SCb-633e22"
                     /replace="g"
     variation       144177
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       144241
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       144280
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       144490
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="a"
     variation       144494
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       144561
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       145057
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       145138
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       145699
                     /note="G substituted in clone: SCb-633e22"
                     /replace="c"
     variation       145880
                     /note="T substituted in clone: SCb-207i3, SCb-540n10,
                     GS-i2046"
                     /replace="c"
     variation       145950
                     /note="A substituted in clone: SCb-207i3, SCb-540n10"
                     /replace="g"
     variation       145993
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       146370
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       146438
                     /note="A substituted in clone: SCb-633e22"
                     /replace="t"
     variation       146506
                     /note="C substituted in clone: SCb-633e22, SCb-207i3,
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                     /replace="t"
     variation       146695
                     /note="T substituted in clone: SCb-540n10, SCb-207i3,
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     variation       146864
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       146870
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       146875
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       146953
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       146956
                     /note="C substituted in clone: SCb-633e22"
                     /replace="g"
     variation       146983
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       147023
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       147047
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       147049
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       147107
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       147276
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       147289
                     /note="C substituted in clone: SCb-633e22"
                     /replace="g"
     variation       147294
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       147397
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       147498
                     /note="deleted in clone: SCb-633e22, CTD-2629I16"
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     variation       147622
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       147660
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       147741
                     /note="G substituted in clone: SCb-633e22"
                     /replace="c"
     variation       147845
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       147849
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       147877
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       148027
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       148171
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       148203
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       148426
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       148488
                     /note="A substituted in clone: SCb-633e22"
                     /replace="c"
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variation       148529
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                /replace="t"
variation       148541
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       148560
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       148574
                /note="T substituted in clone: SCb-633e22"
                /replace="c"
variation       148616
                /note="T substituted in clone: SCb-633e22"
                /replace="c"
variation       148618
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       148619
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       148627
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       148675
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       148684
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       148697
                /note="G substituted in clone: SCb-633e22"
                /replace="a"
variation       148888
                /note="G substituted in clone: SCb-633e22"
                /replace="c"
variation       148893
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       148955
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       148960
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       148963
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       149030
                /note="G substituted in clone: SCb-633e22"
                /replace="a"
variation       149059
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       149157
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       149181
                /note="T substituted in clone: SCb-633e22"
                /replace="c"
variation       149214
                /note="G substituted in clone: SCb-633e22"
                /replace="a"
variation       149231
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       149337..149338
                /note="GG substituted in clone: SCb-633e22"
                /replace="ca"
variation       149345
                /note="A substituted in clone: SCb-633e22"
                /replace="c"
variation       149384
                /note="T substituted in clone: SCb-633e22"
                /replace="a"
variation       149412
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       149478
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       149870
                /note="A substituted in clone: SCb-633e22"
                /replace="c"
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variation       149901
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       150102
                /note="G substituted in clone: SCb-633e22"
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variation       150958
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       152490
                /note="G substituted in clone: SCb-633e22"
                /replace="c"
variation       152724
                /note="T substituted in clone: SCb-633e22"
                /replace="g"
variation       152779..152788
                /note="deleted in clone: CTD-2629I16, SCb-540n10,
                GS-i2046"
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variation       152972
                /note="T substituted in clone: SCb-540n10"
                /replace="g"
variation       153095
                /note="A substituted in clone: SCb-540n10"
                /replace="g"
variation       153253
                /note="G substituted in clone: SCb-633e22"
                /replace="c"
variation       154090
                /note="T substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
                /replace="c"
variation       154231
                /note="T substituted in clone: SCb-633e22"
                /replace="c"
variation       154233
                /note="C substituted in clone: SCb-633e22"
                /replace="g"
variation       154236
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       155622
                /note="T substituted in clone: SCb-540n10"
                /replace="g"
variation       157123
                /note="G substituted in clone: SCb-633e22"
                /replace="a"
variation       157266
                /note="G substituted in clone: SCb-540n10"
                /replace="a"
variation       157379
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       157429
                /note="C substituted in clone: GS-i2046"
                /replace="t"
variation       157468
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       158152
                /note="G substituted in clone: GS-i2046"
                /replace="a"
variation       158263
                /note="G substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
                /replace="a"
variation       158277
                /note="C substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
                /replace="a"
variation       158433
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       158598
                /note="T substituted in clone: GS-i2046"
                /replace="a"
variation       159021
                /note="G substituted in clone: SCb-633e22, SCb-540n10,
                GS-i2046"
                /replace="a"
variation       159760
                /note="A substituted in clone: SCb-540n10, GS-i2046,
                SCb-633e22"
                /replace="g"
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variation       160475
                /note="G substituted in clone: SCb-633e22"
                /replace="a"
variation       160662
                /note="G substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
                /replace="a"
variation       160975
                /note="A substituted in clone: SCb-540n10"
                /replace="g"
variation       161293
                /note="T substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
                /replace="c"
variation       161375
                /note="A substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
                /replace="c"
variation       161805
                /note="G substituted in clone: GS-i2046"
                /replace="a"
variation       161823
                /note="T substituted in clone: GS-i2046, SCb-540n10,
                SCb-633e22"
                /replace="c"
variation       162055
                /note="T substituted in clone: SCb-540n10"
                /replace="a"
variation       162463
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       162508
                /note="C substituted in clone: SCb-540n10"
                /replace="t"
variation       162816
                /note="G substituted in clone: GS-i2046"
                /replace="a"
variation       162841
                /note="G substituted in clone: SCb-633e22"
                /replace="a"
variation       162953
                /note="T substituted in clone: SCb-540n10"
                /replace="c"
variation       163077
                /note="G substituted in clone: SCb-540n10, GS-i2046,
                SCb-633e22"
                /replace="t"
variation       163122
                /note="A substituted in clone: GS-i2046"
                /replace="c"
variation       163295
                /note="T substituted in clone: SCb-540n10"
                /replace="c"
variation       163399
                /note="C substituted in clone: SCb-540n10"
                /replace="a"
variation       163614
                /note="C substituted in clone: SCb-633e22"
                /replace="t"
variation       163946
                /note="T substituted in clone: SCb-540n10, SCb-633e22"
                /replace="a"
variation       164212
                /note="G substituted in clone: SCb-540n10"
                /replace="a"
variation       164329
                /note="T substituted in clone: SCb-540n10, SCb-633e22"
                /replace="c"
variation       164395
                /note="T substituted in clone: SCb-540n10, SCb-633e22"
                /replace="c"
variation       164671
                /note="G substituted in clone: SCb-540n10"
                /replace="a"
variation       164980
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       165345
                /note="G substituted in clone: SCb-540n10, GS-i2046,
                SCb-633e22"
                /replace="c"
variation       165426
                /note="G substituted in clone: SCb-540n10, SCb-633e22,
                GS-i2046"
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                     /replace="c"
     variation       165601
                     /note="deleted in clone: GS-i2046, SCb-633e22,
                     CTD-2629I16"
                     /replace=""
     variation       165675
                     /note="G substituted in clone: SCb-540n10"
                     /replace="t"
     variation       166345
                     /note="G substituted in clone: SCb-540n10"
                     /replace="t"
     variation       166669
                     /note="C substituted in clone: SCb-540n10"
                     /replace="g"
     variation       166926
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       166965
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="t"
     variation       167620
                     /note="deleted in clone: SCb-540n10, GS-i2046"
                     /replace=""
     variation       167680
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="t"
     variation       167798..167799
                     /note="deleted in clone: GS-i2046"
                     /replace=""
     variation       167799
                     /note="deleted in clone: SCb-540n10"
                     /replace=""
     variation       168061
                     /note="T substituted in clone: GS-i2046"
                     /replace="c"
     variation       168782
                     /note="G substituted in clone: SCb-540n10"
                     /replace="c"
     variation       169126
                     /note="A substituted in clone: GS-i2046"
                     /replace="g"
     variation       169490
                     /note="T substituted in clone: SCb-540n10"
                     /replace="c"
     variation       169711
                     /note="C substituted in clone: SCb-540n10"
                     /replace="g"
     variation       169784
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       170109
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       170512
                     /note="A substituted in clone: GS-i2046"
                     /replace="c"
     variation       170769
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       170798
                     /note="C substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       170811
                     /note="G substituted in clone: GS-i2046"
                     /replace="a"
     variation       171103
                     /note="G substituted in clone: GS-i2046"
                     /replace="a"
     variation       171127
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       171189
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       171353
                     /note="A substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       171909
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       172187
                     /note="C substituted in clone: GS-i2046"
                     /replace="t"
     variation       172363
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                     /note="A substituted in clone: SCb-540n10, GS-i2046"
                     /replace="t"
     variation       172391
                     /note="A substituted in clone: GS-i2046"
                     /replace="g"
     variation       172495
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       172539
                     /note="A substituted in clone: SCb-540n10"
                     /replace="g"
     variation       172572
                     /note="deleted in clone: SCb-633e22, CTD-2629I16"
                     /replace=""
     variation       172951
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="t"
     variation       173033
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       173145
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       173518
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       173521
                     /note="T substituted in clone: GS-i2046"
                     /replace="c"
     variation       173581
                     /note="A substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       173584..173592
                     /note="CACATACTT substituted in clone: SCb-540n10,
                     GS-i2046"
                     /replace="gcttaggaa"
     variation       173593..173600
                     /note="TGGAGCAC substituted in clone: GS-i2046,
                     SCb-540n10"
                     /replace="aaacagtg"
     variation       173601..173902
                     /note="deleted in clone: SCb-540n10, GS-i2046"
                     /replace=""
     misc_feature    173604..173607
                     /note="low quality region"
     misc_feature    173690..173733
                     /note="low quality region"
     unsure          173732
     misc_feature    173778
                     /note="low quality region"
     unsure          173778
     misc_feature    173831
                     /note="low quality region"
     variation       174268
                     /note="C substituted in clone: GS-i2046"
                     /replace="t"
     variation       174285
                     /note="C substituted in clone: GS-i2046"
                     /replace="t"
     variation       174424
                     /note="A substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       174504
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       174966
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       175153
                     /note="C substituted in clone: SCb-540n10"
                     /replace="g"
     variation       175229
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       175278
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="t"
     variation       175780
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       175843..175844
                     /note="deleted in clone: SCb-540n10, GS-i2046"
                     /replace=""
     variation       176031
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                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       176113
                     /note="A substituted in clone: SCb-540n10"
                     /replace="g"
     variation       176249
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="t"
     variation       176290
                     /note="A substituted in clone: GS-i2046"
                     /replace="g"
     variation       176728
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       176823
                     /note="G substituted in clone: GS-i2046"
                     /replace="c"
     variation       177576
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       177798
                     /note="G substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       178383
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       178602
                     /note="G substituted in clone: GS-i2046"
                     /replace="c"
     variation       178655
                     /note="deleted in clone: CTD-2629I16, SCb-633e22"
                     /replace=""
     variation       178751
                     /note="A substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       179320
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       180014
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       180241
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="a"
     variation       180421
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       180724
                     /note="C substituted in clone: SCb-540n10, GS-i2046"
                     /replace="g"
     variation       180896
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       181607
                     /note="C substituted in clone: SCb-633e22"
                     /replace="g"
     variation       181680
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       181748
                     /note="A substituted in clone: SCb-633e22"
                     /replace="t"
     variation       182217
                     /note="G substituted in clone: SCb-540n10"
                     /replace="t"
     variation       183212
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       183280
                     /note="A substituted in clone: GS-i2046, SCb-633e22"
                     /replace="g"
     variation       183428
                     /note="C substituted in clone: SCb-540n10, SCb-633e22,
                     GS-i2046"
                     /replace="g"
     variation       183709
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       183731
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       184421
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
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     variation       184538
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       184782
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       185048
                     /note="G substituted in clone: SCb-540n10"
                     /replace="t"
     variation       186236
                     /note="T substituted in clone: SCb-540n10, GS-i2046"
                     /replace="c"
     variation       186559
                     /note="C substituted in clone: SCb-540n10, SCb-633e22,
                     GS-i2046"
                     /replace="t"
     variation       187010
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       187026
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       187037..187066
                     /note="deleted in clone: GS-i2046"
                     /replace=""
     variation       187037..187044
                     /note="deleted in clone: SCb-633e22"
                     /replace=""
     variation       187047..187092
                     /note="deleted in clone: SCb-540n10"
                     /replace=""
     variation       188013
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       188178
                     /note="A substituted in clone: SCb-633e22, SCb-540n10,
                     GS-i2046"
                     /replace="g"
     variation       188423
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       188923
                     /note="A substituted in clone: SCb-540n10, SCb-633e22,
                     GS-i2046"
                     /replace="g"
     variation       188998
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       189108
                     /note="A substituted in clone: GS-i2046"
                     /replace="t"
     variation       189123
                     /note="A substituted in clone: SCb-633e22"
                     /replace="t"
     variation       189716
                     /note="G substituted in clone: SCb-633e22"
                     /replace="t"
     variation       190019
                     /note="T substituted in clone: GS-i2046, SCb-633e22"
                     /replace="g"
     variation       190548
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       190591
                     /note="G substituted in clone: SCb-633e22"
                     /replace="c"
     variation       190628..190640
                     /note="deleted in clone: SCb-540n10"
                     /replace=""
     variation       190650
                     /note="A substituted in clone: SCb-540n10"
                     /replace="g"
     variation       190729
                     /note="A substituted in clone: SCb-633e22"
                     /replace="t"
     variation       191431
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       192485
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       192524
                     /note="T substituted in clone: SCb-540n10"
                     /replace="c"
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variation       192709
                /note="T substituted in clone: SCb-633e22, GS-i2046"
                /replace="g"
variation       192877
                /note="T substituted in clone: CTD-2629I16"
                /replace="c"
variation       193006
                /note="C substituted in clone: SCb-540n10"
                /replace="t"
variation       193858
                /note="T substituted in clone: SCb-633e22, GS-i2046"
                /replace="g"
variation       194089
                /note="G substituted in clone: GS1-P1-861"
                /replace="t"
variation       194268
                /note="C substituted in clone: GS1-P1-861, SCb-633e22"
                /replace="t"
variation       194831
                /note="G substituted in clone: SCb-633e22"
                /replace="t"
variation       194907
                /note="A substituted in clone: SCb-540n10, GS1-P1-861,
                SCb-633e22"
                /replace="g"
variation       194958
                /note="G substituted in clone: GS1-P1-861, GS-i2046,
                SCb-633e22, SCb-540n10"
                /replace="t"
variation       195089..195091
                /note="deleted in clone: SCb-540n10, CTD-2629I16,
                GS1-P1-861, GS-i2046"
                /replace=""
variation       195130
                /note="T substituted in clone: SCb-633e22"
                /replace="c"
variation       195335
                /note="T substituted in clone: SCb-633e22, GS-i2046"
                /replace="g"
variation       195468
                /note="A substituted in clone: SCb-633e22"
                /replace="g"
variation       196210
                /note="T substituted in clone: SCb-540n10, SCb-633e22,
                GS1-P1-861, GS-i2046"
                /replace="g"
variation       196806
                /note="deleted in clone: SCb-633e22"
                /replace=""
variation       197318
                /note="G substituted in clone: GS1-P1-861"
                /replace="a"
variation       197365
                /note="T substituted in clone: GS-i2046, SCb-633e22"
                /replace="c"
variation       198037
                /note="A substituted in clone: SCb-633e22, GS-i2046"
                /replace="c"
variation       198139
                /note="T substituted in clone: SCb-540n10"
                /replace="c"
variation       198153
                /note="deleted in clone: SCb-540n10, GS1-P1-861"
                /replace=""
variation       198165..198166
                /note="TT substituted in clone: GS-i2046, SCb-633e22"
                /replace="cc"
variation       198227
                /note="G substituted in clone: GS-i2046, SCb-633e22"
                /replace="t"
variation       198288
                /note="C substituted in clone: GS1-P1-861"
                /replace="a"
variation       198346
                /note="A substituted in clone: CTD-2629I16"
                /replace="t"
variation       199124
                /note="G substituted in clone: GS1-P1-861"
                /replace="a"
variation       199521
                /note="C substituted in clone: SCb-633e22"
                /replace="a"
variation       199733
                /note="A substituted in clone: SCb-633e22, GS-i2046"
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                     /replace="g"
     variation       200847
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       200852
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       200873
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       201045
                     /note="T substituted in clone: SCb-633e22, GS-i2046"
                     /replace="c"
     variation       201186
                     /note="G substituted in clone: SCb-633e22, GS-i2046"
                     /replace="a"
     variation       201484
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       201790
                     /note="deleted in clone: SCb-540n10, CTD-2629I16,
                     SCb-633e22, GS1-P1-861"
                     /replace=""
     variation       201953
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       202100
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       202710
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       202972..202973
                     /note="deleted in clone: SCb-633e22, GS1-P1-861"
                     /replace=""
     variation       203373
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       204128
                     /note="T substituted in clone: SCb-540n10, GS-i2046,
                     SCb-633e22"
                     /replace="c"
     variation       204217
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       204326
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861,
                     SCb-633e22, GS-i2046"
                     /replace="c"
     variation       204749
                     /note="G substituted in clone: SCb-540n10, GS-i2046,
                     GS1-P1-861, SCb-633e22"
                     /replace="a"
     variation       205203
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861,
                     SCb-633e22, GS-i2046"
                     /replace="c"
     variation       205265
                     /note="A substituted in clone: GS-i2046, SCb-633e22,
                     SCb-540n10"
                     /replace="c"
     variation       205315
                     /note="C substituted in clone: GS-i2046, SCb-633e22"
                     /replace="t"
     variation       205494
                     /note="A substituted in clone: SCb-633e22, GS-i2046"
                     /replace="g"
     variation       205822
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       206004
                     /note="A substituted in clone: SCb-633e22, SCb-540n10"
                     /replace="g"
     variation       206251
                     /note="C substituted in clone: SCb-633e22"
                     /replace="a"
     variation       206274
                     /note="C substituted in clone: CTD-2629I16, SCb-633e22"
                     /replace="g"
     variation       206277
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       206600
                     /note="G substituted in clone: SCb-633e22"
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                     /replace="a"
     variation       206751
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       206934
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       207286
                     /note="G substituted in clone: SCb-633e22"
                     /replace="t"
     variation       207323
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       207521
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       207993
                     /note="G substituted in clone: SCb-633e22"
                     /replace="c"
     variation       208004
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       208107..208108
                     /note="deleted in clone: SCb-633e22"
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     variation       208141
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       208205
                     /note="G substituted in clone: SCb-540n10"
                     /replace="c"
     variation       208752
                     /note="A substituted in clone: GS1-P1-861, SCb-540n10"
                     /replace="t"
     variation       208798
                     /note="A substituted in clone: GS1-P1-861, SCb-540n10,
                     SCb-633e22"
                     /replace="g"
     variation       208953
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       209230
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       209425
                     /note="A substituted in clone: SCb-633e22"
                     /replace="g"
     variation       209763
                     /note="T substituted in clone: SCb-540n10, SCb-633e22"
                     /replace="c"
     variation       209766
                     /note="T substituted in clone: SCb-633e22, SCb-540n10"
                     /replace="c"
     variation       209836
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       210008
                     /note="T substituted in clone: SCb-633e22"
                     /replace="a"
     variation       210449
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       210533
                     /note="G substituted in clone: SCb-633e22"
                     /replace="a"
     variation       210824..210825
                     /note="GG substituted in clone: CTD-2629I16"
                     /replace="tt"
     variation       210950
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       211356
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       211376
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       211673
                     /note="T substituted in clone: SCb-633e22"
                     /replace="c"
     variation       211794
                     /note="G substituted in clone: SCb-633e22"
                     /replace="t"
     variation       211846
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                     /replace="g"
     variation       211964
                     /note="C substituted in clone: SCb-633e22"
                     /replace="a"
     variation       212010
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       212335
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       212413
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       212728
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       213217
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       213357
                     /note="A substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="g"
     variation       213660
                     /note="C substituted in clone: SCb-540n10, SCb-633e22"
                     /replace="t"
     variation       213661
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       213674
                     /note="G substituted in clone: SCb-633e22, SCb-540n10"
                     /replace="a"
     variation       213696
                     /note="C substituted in clone: SCb-633e22, SCb-540n10,
                     GS1-P1-861"
                     /replace="t"
     variation       213834
                     /note="T substituted in clone: SCb-633e22, SCb-540n10,
                     GS1-P1-861"
                     /replace="a"
     variation       213956..213959
                     /note="deleted in clone: GS1-P1-861"
                     /replace=""
     variation       214005
                     /note="G substituted in clone: SCb-540n10, SCb-633e22"
                     /replace="c"
     variation       214084
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       214098
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       214197
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       214205
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       214284
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       214302
                     /note="C substituted in clone: SCb-633e22"
                     /replace="t"
     variation       214304
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       214327
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       214427
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       214439..214470
                     /note="deleted in clone: GS1-P1-861"
                     /replace=""
     variation       214439..214466
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       214490
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       214494..214497
                     /note="deleted in clone: CTD-2629I16, SCb-540n10"
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     variation       214496..214498
                     /note="deleted in clone: GS1-P1-861"
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     variation       214504..214505
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     variation       214508
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       214513
                     /note="deleted in clone: GS1-P1-861"
                     /replace=""
     variation       214525
                     /note="deleted in clone: GS1-P1-861, CTD-2629I16"
                     /replace=""
     variation       214803
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       214921
                     /note="C substituted in clone: SCb-540n10, SCb-633e22"
                     /replace="t"
     variation       214942
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       215022
                     /note="T substituted in clone: SCb-540n10, CTD-2629I16,
                     SCb-633e22"
                     /replace="c"
     variation       215136
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       215139
                     /note="G substituted in clone: SCb-540n10, CTD-2629I16,
                     SCb-633e22"
                     /replace="c"
     variation       215193
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       215201
                     /note="G substituted in clone: SCb-633e22, SCb-540n10"
                     /replace="a"
     variation       215204
                     /note="A substituted in clone: SCb-633e22, SCb-540n10,
                     CTD-2629I16"
                     /replace="g"
     variation       215804
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       215812
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       215887
                     /note="G substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="a"
     variation       215890
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="c"
     variation       215896
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       216049
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="c"
     variation       216055
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       216058
                     /note="G substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="c"
     variation       216071..216072
                     /note="GA substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="ag"
     variation       216084
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="c"
     variation       216092
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       216100
                     /note="C substituted in clone: SCb-540n10, GS1-P1-861"
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     variation       216226
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="g"
     variation       216282
                     /note="G substituted in clone: GS1-P1-861, SCb-633e22,
                     CTD-2629I16"
                     /replace="a"
     variation       216468
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       216477
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       216506
                     /note="A substituted in clone: GS1-P1-861, CTD-2629I16"
                     /replace="c"
     variation       216523
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       216565
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       216664
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       216693
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       216888
                     /note="T substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="g"
     variation       216922
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       216945
                     /note="A substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="g"
     variation       216972
                     /note="C substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="t"
     variation       217016
                     /note="C substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="t"
     variation       217046
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       217061
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       217105
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       217177
                     /note="C substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       217185..217186
                     /note="TG substituted in clone: GS1-P1-861"
                     /replace="ct"
     variation       217185
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       217248
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       217259
                     /note="G substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="a"
     variation       217353
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       217487
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       217556
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       217557
                     /note="deleted in clone: GS1-P1-861"
                     /replace=""
     variation       217564
                     /note="deleted in clone: CTD-2629I16"
                     /replace=""
     variation       217612
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                     /replace="g"
     variation       217633
                     /note="C substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="g"
     variation       217903
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       218092
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       218197
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       218214
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       218223
                     /note="T substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="g"
     variation       218278
                     /note="T substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="a"
     variation       218348
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       218351
                     /note="T substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="c"
     variation       218353..218354
                     /note="CT substituted in clone: GS1-P1-861"
                     /replace="tg"
     variation       218467
                     /note="G substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="t"
     variation       218489
                     /note="C substituted in clone: GS1-P1-861, CTD-2629I16"
                     /replace="t"
     variation       218530
                     /note="T substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="g"
     variation       219006
                     /note="T substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="c"
     variation       219170
                     /note="C substituted in clone: SCb-540n10"
                     /replace="t"
     variation       219294
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       219595
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       219605
                     /note="A substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="g"
     variation       219744
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       219869
                     /note="C substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="a"
     variation       219942
                     /note="A substituted in clone: GS1-P1-861"
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                     /note="G substituted in clone: CTD-2629I16"
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     variation       220075
                     /note="T substituted in clone: SCb-540n10"
                     /replace="a"
     variation       220140
                     /note="G substituted in clone: CTD-2629I16, GS1-P1-861"
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     variation       220149
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       220161
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="c"
     variation       220203
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     variation       220509
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       220532
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       220594
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       220619
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       220648
                     /note="C substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="t"
     variation       220656
                     /note="G substituted in clone: SCb-540n10, GS1-P1-861"
                     /replace="a"
     variation       220690
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       220733
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       220760..220761
                     /note="CT substituted in clone: SCb-540n10"
                     /replace="gc"
     variation       221053
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       221167
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       221171
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       221175
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       221230
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       221243
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       221266
                     /note="T substituted in clone: CTD-2629I16"
                     /replace="a"
     variation       221285
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       221427
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       221453
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       221460
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       221469
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       221574
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       221863
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                     /replace="t"
     variation       221880
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       221968
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       221971
                     /note="A substituted in clone: GS1-P1-861, CTD-2629I16"
                     /replace="g"
     variation       222016
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       222091
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                     /note="G substituted in clone: GS1-P1-861"
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     variation       222665
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       222753
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       222801
                     /note="G substituted in clone: SCb-540n10"
                     /replace="a"
     variation       222898
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       222956
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       222964
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       223002
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       223004
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       223010..223014
                     /note="deleted in clone: CTD-2629I16, SCb-540n10"
                     /replace=""
     variation       223015..223016
                     /note="CA substituted in clone: GS1-P1-861"
                     /replace="tg"
     variation       223018
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223028
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223060
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223178
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       223243
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223286
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223304
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       223355
                     /note="G substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="c"
     variation       223449
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223487
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       223551
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       223691
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       223781
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       223818
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       223946
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       223994
                     /note="G substituted in clone: GS1-P1-861"
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     variation       224100
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                     /replace="a"
     variation       224177
                     /note="T substituted in clone: GS1-P1-861"
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                     /note="T substituted in clone: CTD-2629I16, GS1-P1-861"
                     /replace="a"
     variation       224203
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       224244
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       224278
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       224288
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       224342
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       224351
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       224353
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       224400
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       224411
                     /note="G substituted in clone: CTD-2629I16"
                     /replace="t"
     variation       224431
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       224474
                     /note="C substituted in clone: GS1-P1-861"
                     /replace="t"
     variation       224540
                     /note="A substituted in clone: CTD-2629I16"
                     /replace="g"
     variation       224780
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="a"
     variation       225028
                     /note="A substituted in clone: GS1-P1-861, CTD-2629I16"
                     /replace="g"
     variation       225134
                     /note="G substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       225152
                     /note="A substituted in clone: GS1-P1-861"
                     /replace="g"
     variation       225158
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                     /note="deleted in clone: GS1-P1-861"
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     variation       225314
                     /note="T substituted in clone: GS1-P1-861"
                     /replace="c"
     variation       225333
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                     /replace="c"
     variation       225347
                     /note="G substituted in clone: GS1-P1-861"
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     variation       225599
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     variation       225604
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                     /replace="g"
     variation       225658
                     /note="C substituted in clone: CTD-2629I16"
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     variation       225767
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     variation       225804
                     /note="T substituted in clone: GS1-P1-861, CTD-2629I16"
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